

NNN		NNN	CCCCCCCCCCCC	PPPPPPPPPPPP	
NNN		NNN	CCCCCCCCCCCC	PPPPPPPPPPPP	
NNN		NNN	CCCCCCCCCCCC	PPPPPPPPPPPP	
NNN		NNN	CCC	PPP	PPP
NNN		NNN	CCC	PPP	PPP
NNN		NNN	CCC	PPP	PPP
NNNNNN		NNN	CCC	PPP	PPP
NNNNNN		NNN	CCC	PPP	PPP
NNNNNN		NNN	CCC	PPP	PPP
NNN	NNN	NNN	CCC	PPPPPPPPPPPP	
NNN	NNN	NNN	CCC	PPPPPPPPPPPP	
NNN	NNN	NNN	CCC	PPPPPPPPPPPP	
NNN	NNNNNN	NNN	CCC	PPP	
NNN	NNNNNN	NNN	CCC	PPP	
NNN	NNNNNN	NNN	CCC	PPP	
NNN	NNN	NNN	CCC	PPP	
NNN	NNN	NNN	CCC	PPP	
NNN	NNN	NNN	CCC	PPP	
NNN		NNN	CCCCCCCCCCCC	PPP	
NNN		NNN	CCCCCCCCCCCC	PPP	
NNN		NNN	CCCCCCCCCCCC	PPP	

NN	NN	CCCCCCCC	PPPPPPPP	SSSSSSSS	TTTTTTTTTT	AAAAAA	MM	MM	SSSSSSSS	EEEEEEEEEE	
NN	NN	CCCCCCCC	PPPPPPPP	SSSSSSSS	TTTTTTTTTT	AAAAAA	MM	MM	SSSSSSSS	EEEEEEEEEE	
NN	NN	CC	PP	SS	TT	AA	MMM	MMM	SS	EE	
NN	NN	CC	PP	SS	TT	AA	MMM	MMM	SS	EE	
NNNN	NN	CC	PP	SS	TT	AA	MM	MM	SS	EE	
NNNN	NN	CC	PP	SS	TT	AA	MM	MM	SS	EE	
NN	NN	CC	PPPPPPPP	SSSSSS	TT	AA	MM	MM	SSSSSS	EEEEEEEE	
NN	NN	CC	PPPPPPPP	SSSSSS	TT	AA	MM	MM	SSSSSS	EEEEEEEE	
NN	NNNN	CC	PP	SS	TT	AAAAAAAAAA	MM	MM	SS	EE	
NN	NNNN	CC	PP	SS	TT	AAAAAAAAAA	MM	MM	SS	EE	
NN	NN	CC	PP	SS	TT	AA	MM	MM	SS	EE	
NN	NN	CC	PP	SS	TT	AA	MM	MM	SS	EE	
NN	NN	CCCCCCCC	PP	SSSSSSSS	TT	AA	MM	MM	SSSSSSSS	EEEEEEEEEE
NN	NN	CCCCCCCC	PP	SSSSSSSS	TT	AA	MM	MM	SSSSSSSS	EEEEEEEEEE

LL	IIIIII	SSSSSSSS
LL	IIIIII	SSSSSSSS
LL	II	SS
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LL	II	SS
LL	II	SS
LL	II	SSSSSS
LL	II	SSSSSS
LL	II	SS
LL	II	SS
LL	II	SS
LL	II	SS
LLLLLLLLLLLL	IIIIII	SSSSSSSS
LLLLLLLLLLLL	IIIIII	SSSSSSSS


```
0001 0 %TITLE 'X.25 Server Module Parsing'
0002 0 MODULE NCPSTAMSE (IDENT = 'V04-000',LIST(NOOBJECT)) =
0003 1 BEGIN
0004 1
0005 1
0006 1 *****
0007 1 *
0008 1 *   COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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0011 1 *
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0024 1 *   SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
0025 1 *
0026 1 *
0027 1 *****
0028 1
0029 1
0030 1 ++
0031 1 FACILITY:      Network Control Program (NCP)
0032 1
0033 1 ABSTRACT:
0034 1
0035 1     States and data for the parsing of NCP X.25 server module parameters
0036 1
0037 1 ENVIRONMENT:   VAX/VMS Operating System
0038 1
0039 1 AUTHOR:       Tim Halvorsen, July 1981
0040 1
0041 1 MODIFIED BY:
0042 1
0043 1     V03-009 PRD0069      Paul R. DeStefano      24-Feb-1984
0044 1     Accept 'KNOWN' as 'KNOWN DESTINATIONS'.
0045 1     Prompt for destination name when 'DESTINATION'
0046 1     parameter is entered without specifying a name.
0047 1
0048 1     V03-008 PRD0060      Paul R. DeStefano      05-Feb-1984
0049 1     Allow OBJECT parameter to accept both name and number.
0050 1
0051 1     V03-007 RPG0007      Bob Grosso              11-Nov-1982
0052 1     Make IPR 132 corrections.
0053 1     Remove node and file name prompt.
0054 1
0055 1     V03-006 RPG0006      Bob Grosso              15-Sep-1982
0056 1     Flag qualifier for ALL check.
0057 1
```

:	58	0058	1	:	V03-005	RPG0005	Bob Grosso	08-Sep-1982
:	59	0059	1	:			Change use of HXPS to HEX for CALL VALUE and CALL MASK.	
:	60	0060	1	:				
:	61	0061	1	:	V03-004	TMH0004	Tim Halvorsen	19-Aug-1982
:	62	0062	1	:			Remove FILE from the list of X25-SERVER wide paramter	
:	63	0063	1	:			prompting list, since it's a destination parameter.	
:	64	0064	1	:			Fix CALL MASK and CALL VALUE, so that they are sent	
:	65	0065	1	:			as HI in the NICE message.	
:	66	0066	1	:				
:	67	0067	1	:	V03-003	RPG0003	Bob Grosso	03-Aug-1982
:	68	0068	1	:			Prompt for ALL for CLEAR X-S DEST dest.	
:	69	0069	1	:			Add State and File.	
:	70	0070	1	:				
:	71	0071	1	:	V3-002	RPG0002	Bob Grosso	26-Jul-1982
:	72	0072	1	:			Add X29-Server, using common parsing.	
:	73	0073	1	:				
:	74	0074	1	:	V001	TMH0001	Tim Halvorsen	05-Apr-1982
:	75	0075	1	:			Fix prompting for DESTINATION parameters if none are	
:	76	0076	1	:			specified on the command line.	
:	77	0077	1	:--				


```
.. 79      0078 1 %SBTTL 'Definitions'
.. 80      0079 1
.. 81      0080 1
.. 82      0081 1 ! INCLUDE FILES:
.. 83      0082 1 !
.. 84      0083 1
.. 85      0084 1      LIBRARY 'LIB$:NMALIBRY';
.. 86      0085 1      LIBRARY 'LIB$:NCPLIBRY';
.. 87      0086 1      LIBRARY 'SYSS$LIBRARY:TPAMAC';
.. 88      0087 1
.. 89      0088 1 !
.. 90      0089 1 ! EXTERNAL REFERENCES:
.. 91      0090 1 !
.. 92      0091 1
.. 93      0092 1      ACT_DFN      ! Action routine externals
.. 94      0093 1
.. 95      0094 1 EXTERNAL
.. 96      0095 1      NCP$GL_QUALPRS;      ! Record that a qualifier was present so that
.. 97      0096 1      ! the check for ALL will work correctly
.. 98      0097 1
.. 99      0098 1 !
100 0099 1 ! LITERALS
101 0100 1 !
102 0101 1
103 0102 1 LITERAL
104 0103 1      QUALPRESENT = 1;      ! flag that a qualifier was present on the command line
```

```
106 0104 1 %SBTTL 'Set Parameter blocks'
107 0105 1
108 0106 1
109 0107 1
110 0108 1
111 0109 1
112 P 0110 1 BUILD_PCL
113 P 0111 1
114 P 0112 1 (MSE, ! Module X25-SERVER
115 P 0113 1
116 P 0114 1 DST, TKN, PCXS_DST, ,
117 P 0115 1
118 P 0116 1 CTM, NUMW, PCXS-CTM, ,
119 P 0117 1 MCI, NUMW, PCXS-MCI, ,
120 P 0118 1 NOD, NADR, PCXS-NOD, ,
121 P 0119 1 USR, TKN, PCXS-USR, ,
122 P 0120 1 PSW, TKN, PCXS-SPW, ,
123 P 0121 1 ACC, TKN, PCXS-ACC, ,
124 P 0122 1 OBJ, OBJ, PCXS-OBJ, ,
125 P 0123 1 PRI, NUMB, PCXS-PRI, ,
126 P 0124 1 CMK, HEX, PCXS-CMK, ,
127 P 0125 1 CVL, HEX, PCXS-CVL, ,
128 P 0126 1 GRP, TKN, PCXS-GRP, ,
129 P 0127 1 NUM, TKN, PCXS-NUM, ,
130 P 0128 1 SAD, SAD, PCXS-SAD, ,
131 P 0129 1
132 P 0130 1 STA, NUMB, PCXS-STA, ,
133 P 0131 1 FIL, TKN, PCXS-FIL, ,
134 P 0132 1
135 P 0133 1 , END, , ,
136 P 0134 1 )
137 0135 1
138 0136 1
139 P 0137 1 BUILD_PBK
140 P 0138 1
141 P 0139 1 (MSE, ! Module X25-SERVER
142 P 0140 1
143 P 0141 1 CTM, NUMW, , ,
144 P 0142 1 DST, TKN, , ,
145 P 0143 1 KDS, LITB, NMA$C_ENT_KNO, MSE_DST, ! KNOWN DESTINATIONS
146 P 0144 1 MCI, NUMW, , ,
147 P 0145 1 NOD, NADR, , ,
148 P 0146 1 USR, TKN, , ,
149 P 0147 1 PSW, TKN, , ,
150 P 0148 1 ACC, TKN, , ,
151 P 0149 1 OBJ, OBJ, , ,
152 P 0150 1 PRI, NUMB, , ,
153 P 0151 1 CMK, HEX, , ,
154 P 0152 1 CVL, HEX, , ,
155 P 0153 1 GRP, TKN, , ,
156 P 0154 1 NUM, TKN, , ,
157 P 0155 1 SAD, SAD, , ,
158 P 0156 1
159 P 0157 1 STAON, LITB, NMA$C_STATE_ON, MSE_STA,
160 P 0158 1 STAOFF, LITB, NMA$C_STATE_OFF, MSE_STA,
161 P 0159 1 FIL, TKN, , ,
162 P 0160 1
```



```

: 163      0161 1      )
: 164      0162 1
: 165      0163 1 BIND  PDB$G_MSE_ENT = UPLIT BYTE(0, %ASCIC 'X25-SERVER');
: 166      0164 1
: 167      P 0165 1      BUILD_SDB
: 168      0166 1      (MSE, -NMASC_ENT_MOD, MSE_ENT, MSE)
: 169      0167 1
: 170      0168 1 BIND  PDB$G_M9S_ENT = UPLIT BYTE(0, %ASCIC 'X29-SERVER');
: 171      0169 1
: 172      P 0170 1      BUILD_SDB
: 173      0171 1      (M9S, -NMASC_ENT_MOD, M9S_ENT, MSE)

```

```
175 0172 1 %SBTTL 'Clear Parameter blocks'
176 0173 1
177 0174 1
178 0175 1 Clear X25-SERVER Parameter Blocks
179 0176 1
180 0177 1
181 P 0178 1 BUILD_PCL
182 P 0179 1
183 P 0180 1 (CSE, ! Module X25-SERVER
184 P 0181 1
185 P 0182 1 DST, TKN, PCXS_DST, ,
186 P 0183 1
187 P 0184 1 CTM, LITB, PCXS_CTM, ,
188 P 0185 1 MCI, LITB, PCXS_MCI, ,
189 P 0186 1 NOD, LITB, PCXS_NOD, ,
190 P 0187 1 USR, LITB, PCXS_USR, ,
191 P 0188 1 PSW, LITB, PCXS_PSW, ,
192 P 0189 1 ACC, LITB, PCXS_ACC, ,
193 P 0190 1 OBJ, LITB, PCXS_OBJ, ,
194 P 0191 1 PRI, LITB, PCXS_PRI, ,
195 P 0192 1 CMK, LITB, PCXS_CMK, ,
196 P 0193 1 CVL, LITB, PCXS_CVL, ,
197 P 0194 1 GRP, LITB, PCXS_GRP, ,
198 P 0195 1 NUM, LITB, PCXS_NUM, ,
199 P 0196 1 SAD, LITB, PCXS_SAD, ,
200 P 0197 1
201 P 0198 1 STA, LITB, PCXS_STA, ,
202 P 0199 1 FIL, LITB, PCXS_FIL, ,
203 P 0200 1
204 P 0201 1 , END, , ,
205 P 0202 1 )
206 0203 1
207 0204 1
208 P 0205 1 BUILD_PBK
209 P 0206 1
210 P 0207 1 (CSE, ! Module X25-SERVER
211 P 0208 1
212 P 0209 1 ALL, LITB, 0, VRB_ALL,
213 P 0210 1
214 P 0211 1 CTM, LITB, 0, ,
215 P 0212 1 DST, TKN, ,
216 P 0213 1 KDS, LITB, NMA$C_ENT_KNO, CSE_DST, ! KNOWN DESTINATIONS
217 P 0214 1 MCI, LITB, 0, ,
218 P 0215 1 NOD, LITB, 0, ,
219 P 0216 1 USR, LITB, 0, ,
220 P 0217 1 PSW, LITB, 0, ,
221 P 0218 1 ACC, LITB, 0, ,
222 P 0219 1 OBJ, LITB, 0, ,
223 P 0220 1 PRI, LITB, 0, ,
224 P 0221 1 CMK, LITB, 0, ,
225 P 0222 1 CVL, LITB, 0, ,
226 P 0223 1 GRP, LITB, 0, ,
227 P 0224 1 NUM, LITB, 0, ,
228 P 0225 1 SAD, LITB, 0, ,
229 P 0226 1
230 P 0227 1 STA, LITB, 0, ,
231 P 0228 1 FIL, LITB, 0, ,
```


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V04-000

X.25 Server Module Parsing
Clear Parameter blocks

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..	232	P	0229	1	
...	233		0230	1)
...	234		0231	1	
...	235	P	0232	1	BUILD_SDB
...	236	P	0233	1	
...	237		0234	1	(CSE, NMA\$C_ENT_MOD, MSE_ENT, CSE)
...	238		0235	1	
...	239	P	0236	1	BUILD_SDB
...	240	P	0237	1	
..	241		0238	1	(C9S, NMA\$C_ENT_MOD, M9S_ENT, CSE)

```
243 0239 1 %SBTTL 'Prompt strings'
244 0240 1
245 0241 1
246 0242 1 Build prompt strings
247 0243 1
248 0244 1
249 0245 1 BIND
250 0246 1
251 P 0247 1 PROMPT_STRINGS
252 P 0248 1 (MSE,
253 P 0249 1
254 P 0250 1 DAT, ' (DESTINATION name, or KNOWN): ',
255 P 0251 1 DST, ' DESTINATION (1-16 characters): ',
256 P 0252 1
257 P 0253 1 CTM, 'Counter timer (1-65535 seconds): ',
258 P 0254 1 MCI, 'Maximum circuits (1-65535): ',
259 P 0255 1
260 P 0256 1 ACC, 'Account name (1-39 characters): ',
261 P 0257 1 CMK, 'Call mask (1-32 hex digits): ',
262 P 0258 1 CVL, 'Call value (1-32 hex digits): ',
263 P 0259 1 !! FIL, 'File (filename.typ): ',
264 P 0260 1 !! GRP, 'Group name (1-16 characters): ',
265 P 0261 1 !! NOD, 'Node name (node-name, address): ',
266 P 0262 1 NUM, 'Number (1-16 characters): ',
267 P 0263 1 OBJ, 'Object (name or number): ',
268 P 0264 1 PSW, 'Password (1-39 characters): ',
269 P 0265 1 PRI, 'Priority (0-255): ',
270 P 0266 1 SAD, 'Subaddress range (Range): ',
271 P 0267 1 STA, 'State (ON, OFF): ',
272 P 0268 1 USR, 'User name (1-16 characters): ',
273 0269 1 ),
274 0270 1
275 P 0271 1 PROMPT_STRINGS
276 P 0272 1 (CSE,
277 P 0273 1
278 P 0274 1 DAT, ' (DESTINATION name, or KNOWN): ',
279 P 0275 1 DST, ' DESTINATION (1-16 characters): ',
280 P 0276 1
281 P 0277 1 ALL, 'All X.25 server parameters (Y, N): ',
282 P 0278 1 ALL2, 'All X.25 server destination parameters (Y, N): ',
283 P 0279 1
284 P 0280 1 CTM, 'Counter timer (Y, N): ',
285 P 0281 1 MCI, 'Maximum circuits (Y, N): ',
286 P 0282 1
287 P 0283 1 ACC, 'Account name (Y, N): ',
288 P 0284 1 CMK, 'Call mask (Y, N): ',
289 P 0285 1 CVL, 'Call value (Y, N): ',
290 P 0286 1 FIL, 'File (Y, N): ',
291 P 0287 1 GRP, 'Group name (Y, N): ',
292 P 0288 1 NOD, 'Node name (Y, N): ',
293 P 0289 1 NUM, 'Number (Y, N): ',
294 P 0290 1 OBJ, 'Object (Y, N): ',
295 P 0291 1 PSW, 'Password (Y, N): ',
296 P 0292 1 PRI, 'Priority (Y, N): ',
297 P 0293 1 SAD, 'Subaddress range (Y, N): ',
298 P 0294 1 STA, 'State (Y, N): ',
299 P 0295 1 USR, 'User name (Y, N): ',
```


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X.25 Server Module Parsing
Prompt strings

; 300

0296 1);

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```
.. 302      0297 1 %SBTTL 'Declare entry points to TPARSE tables'
.. 303      0298 1
.. 304      0299 1
.. 305      0300 1      Declare entry points to this TPARSE table
.. 306      0301 1
.. 307      0302 1
.. 308      0303 1 $INIT_STATE (NCP$G_STTBL_MSE, NCP$G_KYTBL_MSE);
.. 309      0304 1
.. 310      0305 1 FORWARD
.. 311      0306 1      ST_M9S: VECTOR [0],      ! Set X29-Server
.. 312      0307 1      ST_CSE: VECTOR [0],      ! Clear X25-SERVER
.. 313      0308 1      ST_C9S: VECTOR [0];      ! Clear X29-SERVER
.. 314      0309 1
.. 315      0310 1 GLOBAL BIND
.. 316      0311 1      NCP$G_STTBL_M9S = ST_M9S,
.. 317      0312 1      NCP$G_KYTBL_M9S = NCP$G_KYTBL_MSE,
.. 318      0313 1      NCP$G_STTBL_CSE = ST_CSE,
.. 319      0314 1      NCP$G_KYTBL_CSE = NCP$G_KYTBL_MSE,
.. 320      0315 1      NCP$G_STTBL_C9S = ST_C9S,
.. 321      0316 1      NCP$G_KYTBL_C9S = NCP$G_KYTBL_MSE;
```



```

: 323      0317 1 %SBTTL 'SET X25-SERVER and X29-SERVER Module Parameters'
: 324      0318 1
: 325      0319 1
: 326      0320 1 SET/DEFINE MODULE X25-SERVER parameter states
: 327      0321 1
: 328      0322 1
: 329      P 0323 1 $STATE (ST_MSE,
: 330      P 0324 1 ((ST_MS_COMMON))
: 331      0325 1 );
: 332      0326 1
: 333      P 0327 1 $STATE (
: 334      P 0328 1 (TPAS_EOS, TPAS_EXIT, ACT$VRB_UTILITY, , , SDB$G_MSE),
: 335      0329 1 );
: 336      0330 1
: 337      0331 1
: 338      0332 1
: 339      0333 1 SET/DEFINE MODULE X29-SERVER parameter states
: 340      0334 1
: 341      0335 1
: 342      P 0336 1 $STATE (ST_M9S,
: 343      P 0337 1 ((ST_MS_COMMON))
: 344      0338 1 );
: 345      0339 1
: 346      P 0340 1 $STATE (
: 347      P 0341 1 (TPAS_EOS, TPAS_EXIT, ACT$VRB_UTILITY, , , SDB$G_M9S),
: 348      0342 1 );
```

```
350      0343 1 |
351      0344 1 |
352      0345 1 |
353      0346 1 |
354      0347 1 |
355      P 0348 1 $STATE (ST_MS_COMMON,
356      P 0349 1 (TPAS_EOS, ST_MSE_PMT_DAT),
357      P 0350 1 (TPAS_LAMBDA, ST_MSE_DAT)
358      0351 1 );
359      0352 1 |
360      0353 1 |
361      0354 1 |
362      0355 1 |
363      0356 1 |
364      0357 1 |
365      0358 1 |
366      0359 1 |
367      P 0360 1 $STATE (ST_MSE_PMT_DAT,
368      0361 1 (TPAS_LAMBDA,, ACT$PRMPT,,, PMT$G_MSE_DAT));
369      0362 1 |
370      P 0363 1 $STATE (ST_MSE_DAT, ! Determine whether DESTINATION parameters
371      P 0364 1 ('DESTINATION', ST_MSE_DAT_DST),
372      P 0365 1 ('KNOWN', ST_MSE_DAT_KWN),
373      0366 1 (TPAS_LAMBDA)); ! Else, assume SERVER-wide
374      0367 1 |
375      0368 1 |
376      0369 1 |
377      0370 1 |
378      0371 1 |
379      P 0372 1 $STATE (
380      P 0373 1 (TPAS_EOS), ! Start prompting if EOS
381      0374 1 (TPAS_LAMBDA, ST_MSE_PRC)); ! Else, try parsing parameters
382      0375 1 |
383      P 0376 1 PROMPT_STATES
384      P 0377 1 (MSE,
385      P 0378 1
386      0379 1 CTM, MCI, STA)
387      0380 1 |
388      P 0381 1 $STATE (
389      0382 1 (TPAS_LAMBDA, ST_MSE_DOIT));
390      0383 1 |
391      0384 1 |
392      0385 1 |
393      0386 1 |
394      0387 1 |
395      P 0388 1 $STATE (ST_MSE_DAT_DST,
396      0389 1 (TPAS_LAMBDA));
397      0390 1 |
398      P 0391 1 COMMAND PROMPT
399      P 0392 1 (MSE, DST, NCP$_INVKEY,
400      P 0393 1
401      0394 1 ((SE_DEST_NAME),, ACT$SAVPRM, QUALPRESENT, NCP$GL_QUALPRS, PBK$G_MSE_DST));
402      0395 1 |
403      P 0396 1 $STATE (ST_MSE_PMT_DST,
404      P 0397 1 (TPAS_EOS), ! Start prompting if EOS
405      0398 1 (TPAS_LAMBDA, ST_MSE_PRC)); ! Else, try parsing parameters
406      0399 1 |
```


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X.25 Server Module Parsing
SET X25-SERVER and X29-SERVER Module Parameters

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```
: 407      P 0400 1      PROMPT_STATES
: 408      P 0401 1      (MSE,
: 409      P 0402 1      ACC, CMK, CVL, GRP, NUM, OBJ, PSW,
: 410      0403 1      PRI, SAD, USR)
: 411      0404 1
: 412      P 0405 1 $STATE (ST_MSE_DOIT,
: 413      P 0406 1      (TPAS_LAMBDA, TPAS_EXIT),
: 414      0407 1      );
```

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```

: 416      0408 1 !
: 417      0409 1 !
: 418      0410 1 !
: 419      0411 1 !
: 420      P 0412 1 $STATE (ST_MSE_DAT_KWN,
: 421      P 0413 1 (TPAS_EDS, ST_MSE_PMT_DST, ACT$SAVPRM,,, PBK$G_MSE_KDS),
: 422      P 0414 1 ('DESTINATIONS', ST_MSE_PMT_DST, ACT$SAVPRM,,, PBK$G_MSE_KDS),
: 423      0415 1 );

```

Dispatch on KNOWN keyword during prompting


```

: 425      0416 1
: 426      0417 1
: 427      0418 1
: 428      0419 1
: 429      0420 1
: 430      P 0421 1 $STATE (ST_MSE_PRC,
: 431      P 0422 1
: 432      P 0423 1 ((SE_ALL), ST_MSE_DOIT),
: 433      P 0424 1
: 434      P 0425 1 DISPATCH_STATES
: 435      P 0426 1 (MSE,
: 436      P 0427 1
: 437      P 0428 1 ACC, 'ACCOUNT',
: 438      P 0429 1 CAL, 'CALL',
: 439      P 0430 1 CTM, 'COUNTER',
: 440      P 0431 1 DST, 'DESTINATION',
: 441      P 0432 1 FIL, 'FILE',
: 442      P 0433 1 GRP, 'GROUP',
: 443      P 0434 1 KWN, 'KNOWN',
: 444      P 0435 1 MCI, 'MAXIMUM',
: 445      P 0436 1 NOD, 'NODE',
: 446      P 0437 1 NUM, 'NUMBER',
: 447      P 0438 1 OBJ, 'OBJECT',
: 448      P 0439 1 PSW, 'PASSWORD',
: 449      P 0440 1 PRI, 'PRIORITY',
: 450      P 0441 1 SAD, 'SUBADDRESSES',
: 451      P 0442 1 STA, 'STATE',
: 452      P 0443 1 USR, 'USER',
: 453      P 0444 1 )
: 454      P 0445 1
: 455      P 0446 1 ,(TPA$_EOS, ST_MSE_DOIT)
: 456      0447 1 ;
```

```

: 458      0448 1
: 459      0449 1
: 460      0450 1      Dispatch on KNOWN keyword
: 461      0451 1
: 462      0452 1
: 463      P 0453 1 $STATE (ST_MSE_PRC_KWN,
: 464      0454 1      ((SE_MSE_KWN), ST_MSE_PRC));
: 465      0455 1
: 466      P 0456 1 $STATE (SE_MSE_KWN,
: 467      P 0457 1
: 468      P 0458 1      KEYWORD_STATE
: 469      P 0459 1      (MSE,
: 470      P 0460 1
: 471      P 0461 1      KDS, 'DESTINATIONS',
: 472      P 0462 1
: 473      0463 1      ));
: 474      0464 1
: 475      0465 1
: 476      0466 1      Dispatch on CALL keyword
: 477      0467 1
: 478      0468 1
: 479      P 0469 1 $STATE (ST_MSE_PRC_CAL,
: 480      P 0470 1
: 481      P 0471 1      DISPATCH_STATES
: 482      P 0472 1      (MSE,
: 483      P 0473 1
: 484      P 0474 1      CMK, 'MASK',
: 485      P 0475 1      CVL, 'VALUE',
: 486      P 0476 1
: 487      0477 1      ));
: 488      0478 1
: 489      0479 1
: 490      0480 1      Dispatch on STATE keyword
: 491      0481 1
: 492      0482 1
: 493      P 0483 1 $STATE (ST_MSE_STA,
: 494      P 0484 1
: 495      P 0485 1      KEYWORD_STATE
: 496      P 0486 1      (MSE,
: 497      P 0487 1
: 498      P 0488 1      STAON, 'ON',
: 499      P 0489 1      STAOFF, 'OFF',
: 500      P 0490 1
: 501      0491 1      ));
```


:	503	0492	1	
:	504	0493	1	:
:	505	0494	1	:
:	506	0495	1	:
:	507	0496	1	:
:	508	P 0497	1	Process states
:	509	P 0498	1	PROCESS_STATES
:	510	P 0499	1	(MSE,
:	511	P 0500	1	ACC, ,
:	512	P 0501	1	CMK, ,
:	513	P 0502	1	CVL, ,
:	514	P 0503	1	CTM, 'TIMER',
:	515	P 0504	1	DST, ,
:	516	P 0505	1	FIL, ,
:	517	P 0506	1	GRP, ,
:	518	P 0507	1	MCI, 'CIRCUITS',
:	519	P 0508	1	NOD, ,
:	520	P 0509	1	NUM, ,
:	521	P 0510	1	OBJ, ,
:	522	P 0511	1	PSW, ,
:	523	P 0512	1	PRI, ,
:	524	P 0513	1	SAD, ,
:	525	P 0514	1	USR, ,
:	526	P 0515	1	STA, ,
:	527	0516	1)

```

: 529      0517 1  |
: 530      0518 1  |
: 531      0519 1  |
: 532      0520 1  |
: 533      0521 1  |
: 534      P 0522 1  |
: 535      P 0523 1  |
: 536      P 0524 1  |
: 537      P 0525 1  |
: 538      P 0526 1  |
: 539      P 0527 1  |
: 540      P 0528 1  |
: 541      P 0529 1  |
: 542      P 0530 1  |
: 543      P 0531 1  |
: 544      P 0532 1  |
: 545      P 0533 1  |
: 546      P 0534 1  |
: 547      P 0535 1  |
: 548      P 0536 1  |
: 549      P 0537 1  |
: 550      P 0538 1  |
: 551      P 0539 1  |
: 552      0540 1  |

```

Subexpression states

SUB EXPRESSIONS
(MSE,

CTM, TPAS_DECIMAL,
MCI, TPAS_DECIMAL,
NOD, (SE_NODE_ID),
USR, (SE_ACC_USR),
PSW, (SE_ACC_PSW),
ACC, (SE_ACC_ACC),
OBJ, (SE_OBJECT_ID),
PRI, TPAS_DECIMAL,
CMK, (SE_HEX_NUM),
CVL, (SE_HEX_NUM),
GRP, (SE_GRP_NAME),
NUM, (SE_DTE_NUMBER),
SAD, (SE_SUBADR_RANGE),
FIL, (SE_FILE_ID),
)


```
: 554      0541 1 %SBTTL 'CLEAR X25-SERVER Module Parameters'
: 555      0542 1
: 556      0543 1
: 557      0544 1
: 558      0545 1
: 559      0546 1
: 560      P 0547 1 $STATE (ST_CSE,
: 561      P 0548 1 ((ST_CS_COMMON))
: 562      0549 1 );
: 563      0550 1
: 564      P 0551 1 $STATE (
: 565      P 0552 1 (TPAS_EOS, TPAS_EXIT, ACT$VRB_UTILITY, , , SDB$G_CSE),
: 566      0553 1 );
: 567      0554 1
: 568      0555 1
: 569      0556 1
: 570      0557 1
: 571      0558 1
: 572      P 0559 1 $STATE (ST_C9S,
: 573      P 0560 1 ((ST_CS_COMMON))
: 574      0561 1 );
: 575      0562 1
: 576      P 0563 1 $STATE (
: 577      P 0564 1 (TPAS_EOS, TPAS_EXIT, ACT$VRB_UTILITY, , , SDB$G_C9S),
: 578      0565 1 );
: 579      0566 1
```

```
581      0567 1 |
582      0568 1 |
583      0569 1 |
584      0570 1 |
585      0571 1 |
586      P 0572 1 $STATE (ST_CS_COMMON,
587      P 0573 1 (TPAS_EOS, ST_CSE_PMT_DAT),
588      P 0574 1 (TPAS_LAMBDA, ST_CSE_DAT)
589      0575 1 );
590      0576 1 |
591      0577 1 |
592      0578 1 |
593      0579 1 |
594      0580 1 |
595      0581 1 |
596      0582 1 |
597      0583 1 |
598      P 0584 1 $STATE (ST_CSE_PMT_DAT,
599      0585 1 (TPAS_LAMBDA, ACT$PRMPT, PMT$G_CSE_DAT));
600      0586 1 |
601      P 0587 1 $STATE (ST_CSE_DAT, ! Determine whether DESTINATION parameters
602      P 0588 1 ('DESTINATION', ST_CSE_DAT_DST),
603      P 0589 1 ('KNOWN', ST_CSE_DAT_KWN),
604      0590 1 (TPAS_LAMBDA)); ! Else, assume SERVER-wide
605      0591 1 |
606      0592 1 |
607      0593 1 |
608      0594 1 |
609      0595 1 |
610      P 0596 1 $STATE (
611      P 0597 1 (TPAS_EOS), ! Start prompting if EOS
612      0598 1 (TPAS_LAMBDA, ST_CSE_PRC)); ! Else, try parsing parameters
613      0599 1 |
614      P 0600 1 QUERY_STATES
615      P 0601 1 (CSE,
616      P 0602 1
617      0603 1 ALL, CTM, FIL, MCI, STA)
618      0604 1 |
619      P 0605 1 $STATE (
620      0606 1 (TPAS_LAMBDA, ST_CSE_DOIT));
621      0607 1 |
622      0608 1 |
623      0609 1 |
624      0610 1 |
625      0611 1 |
626      P 0612 1 $STATE (ST_CSE_DAT_DST,
627      0613 1 (TPAS_LAMBDA));
628      0614 1 |
629      P 0615 1 COMMAND_PROMPT
630      P 0616 1 (CSE, DST, NCP$_INVKEY,
631      P 0617 1
632      0618 1 ((SE_DEST_NAME),, ACT$SAVPRM, PBK$G_CSE_DST));
633      0619 1 |
634      P 0620 1 $STATE (ST_CSE_PMT_DST,
635      P 0621 1 (TPAS_EOS), ! Start prompting if EOS
636      0622 1 (TPAS_LAMBDA, ST_CSE_PRC)); ! Else, try parsing parameters
637      0623 1 |
```



```
: 638
: 639
: 640
: 641
: 642
: 643
: 644
: 645
: 646

P 0624 1      QUERY_STATES_S
P 0625 1      (CSE,
P 0626 1      ALL, ALL2,
P 0627 1      ACC, ACC, CMK, CMK, CVL, CVL, GRP, GRP, NOD, NOD, NUM, NUM,
P 0628 1      OBJ, OBJ, PSW, PSW, PRI, PRI, SAD, SAD, USR, USR)
P 0629 1
P 0630 1 $STATE (ST_CSE_DOIT,
P 0631 1      (TPA$_LAMBDA, TPA$_EXIT),
P 0632 1      );
```

```
: 648      0633 1 |
: 649      0634 1 |      Dispatch on KNOWN keyword during prompting
: 650      0635 1 |
: 651      0636 1 |
: 652      P 0637 1 $STATE (ST_CSE_DAT_KWN,
: 653      P 0638 1 (TPAS_EOS, ST_CSE_PMT_DST, ACT$SAVPRM,,, PBK$G_CSE_KDS),
: 654      P 0639 1
: 655      P 0640 1 ('DESTINATIONS', ST_CSE_PMT_DST, ACT$SAVPRM,,, PBK$G_CSE_KDS),
: 656      0641 1 );
```



```
: 658      0642 1
: 659      0643 1
: 660      0644 1      Dispatch States
: 661      0645 1
: 662      0646 1
: 663      P 0647 1 $STATE (ST_CSE_PRC,
: 664      P 0648 1
: 665      P 0649 1      DISPATCH_STATES
: 666      P 0650 1      (CSE,
: 667      P 0651 1
: 668      P 0652 1      ALL, 'ALL',
: 669      P 0653 1      ACC, 'ACCOUNT',
: 670      P 0654 1      CAL, 'CALL',
: 671      P 0655 1      CTM, 'COUNTER',
: 672      P 0656 1      DST, 'DESTINATION',
: 673      P 0657 1      FIL, 'FILE',
: 674      P 0658 1      GRP, 'GROUP',
: 675      P 0659 1      KWN, 'KNOWN',
: 676      P 0660 1      MCI, 'MAXIMUM',
: 677      P 0661 1      NOD, 'NODE',
: 678      P 0662 1      NUM, 'NUMBER',
: 679      P 0663 1      OBJ, 'OBJECT',
: 680      P 0664 1      PSW, 'PASSWORD',
: 681      P 0665 1      PRI, 'PRIORITY',
: 682      P 0666 1      SAD, 'SUBADDRESSES',
: 683      P 0667 1      STA, 'STATE',
: 684      P 0668 1      USR, 'USER',
: 685      P 0669 1      )
: 686      P 0670 1
: 687      P 0671 1      ,(TPAS_EOS, ST_CSE_DOIT)
: 688      0672 1      );
```

```

: 690      0673 1
: 691      0674 1
: 692      0675 1
: 693      0676 1
: 694      0677 1
: 695      P 0678 1 $STATE (ST_CSE_PRC_KWN,
: 696      0679 1 ((SE_CSE_KWN), ST_CSE_PRC));
: 697      0680 1
: 698      P 0681 1 $STATE (SE_CSE_KWN,
: 699      P 0682 1
: 700      P 0683 1 KEYWORD_STATE
: 701      P 0684 1 (CSE,
: 702      P 0685 1
: 703      P 0686 1 KDS, 'DESTINATIONS',
: 704      P 0687 1
: 705      0688 1 ));
: 706      0689 1
: 707      0690 1
: 708      0691 1
: 709      0692 1
: 710      0693 1
: 711      P 0694 1 $STATE (ST_CSE_PRC_CAL,
: 712      P 0695 1
: 713      P 0696 1 DISPATCH_STATES
: 714      P 0697 1 (CSE,
: 715      P 0698 1
: 716      P 0699 1 CMK, 'MASK',
: 717      P 0700 1 CVL, 'VALUE',
: 718      P 0701 1
: 719      0702 1 ));
```



```

: 721      0703 1
: 722      0704 1
: 723      0705 1
: 724      0706 1
: 725      0707 1
: 726      P 0708 1
: 727      P 0709 1
: 728      P 0710 1
: 729      P 0711 1
: 730      P 0712 1
: 731      P 0713 1
: 732      P 0714 1
: 733      P 0715 1
: 734      P 0716 1
: 735      P 0717 1
: 736      P 0718 1
: 737      P 0719 1
: 738      P 0720 1
: 739      P 0721 1
: 740      P 0722 1
: 741      P 0723 1
: 742      P 0724 1
: 743      P 0725 1
: 744      P 0726 1
: 745      P 0727 1
: 746      P 0728 1
: 747      0729 1

```

Process states

PROCESS_STATES
(CSE,

ALL, ,
ACC, ,
CMK, ,
CVL, ,
CTM, 'TIMER',
DST, ,
FIL, ,
GRP, ,
MCI, 'CIRCUITS',
NOD, ,
NUM, ,
OBJ, ,
PSW, ,
PRI, ,
SAD, ,
STA, ,
USR, ,
)

```
: 749      0730 1
: 750      0731 1
: 751      0732 1
: 752      0733 1
: 753      0734 1
: 754      P 0735 1
: 755      P 0736 1
: 756      P 0737 1
: 757      P 0738 1
: 758      P 0739 1
: 759      P 0740 1
: 760      P 0741 1
: 761      P 0742 1
: 762      P 0743 1
: 763      P 0744 1
: 764      P 0745 1
: 765      P 0746 1
: 766      P 0747 1
: 767      P 0748 1
: 768      P 0749 1
: 769      P 0750 1
: 770      P 0751 1
: 771      P 0752 1
: 772      P 0753 1
: 773      P 0754 1
: 774      P 0755 1
: 775      0756 1
```

Subexpression states

SUB EXPRESSIONS
(CSE,

ALL, TPAS_EOS,

CTM, TPAS_LAMBDA,
MCI, TPAS_LAMBDA,
NOD, TPAS_LAMBDA,
USR, TPAS_LAMBDA,
PSW, TPAS_LAMBDA,
ACC, TPAS_LAMBDA,
OBJ, TPAS_LAMBDA,
PRI, TPAS_LAMBDA,
CMK, TPAS_LAMBDA,
CVL, TPAS_LAMBDA,
GRP, TPAS_LAMBDA,
NUM, TPAS_LAMBDA,
SAD, TPAS_LAMBDA,

FIL, TPAS_LAMBDA,
STA, TPAS_LAMBDA,
)


```
: 777      0757 1 %SBTTL 'Define Subexpressions'
: 778      0758 1
: 779      0759 1
: 780      0760 1
: 781      0761 1
: 782      0762 1
: 783      0763 1
: 784      0764 1
: 785      0765 1
: 786      0766 1
: 787      0767 1
: 788      0768 1
: 789      0769 1
: 790      0770 1
: 791      0771 1
: 792      0772 1
: 793      0773 1
: 794      0774 1

      Define Subexpressions from Library

      SEM_ALL           All parameter
      SEM_NODE_ID       Node ID
      SEM_DTE_NUMBER     DTE call number string
      SEM_FILE_ID        File spec
      SEM_GRP_NAME       Group name
      SEM_DEST_NAME      Destination name
      SEM_SUBADR_RANGE    Subaddress range
      SEM_ACCESS          Access control strings
      SEM_HEX_NUM        Hex strings
      SEM_QUOT_STR        Quoted string
      SEM_OBJECT_ID       Object name/number
      SEM_QUERY           Query state subexpressions
```

NCPSTAMSE
V04-000

X.25 Server Module Parsing
Define Subexpressions

: 796
: 797

0775 1 END
0776 0 ELUDOM

E 15
16-Sep-1984 01:03:20
14-Sep-1984 12:48:30

VAX-11 Bliss-32 V4.0-742
[NCP.SRC]NCPSTAMSE.B32;1

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